BRUHAT BANGALORE MAHANAGARA PALIKE

PROJECT DIVISION YELAHANKA ZONE

ABSTRACT

Package-9:NAME OF WORK ;1. Improvement of drain at thirumenahalli village main road in ward no 05 byatarayanapura sub division.2) Improvement of road and drain at thirumenahalli junction to agrahara layout govt hospital in ward no05 byatarayanapura sub division 3)Improvement of roads and drain at chokkanahalli village main road cross road in ward no 05 byatarayanapura sub division 4) Improvement of roads and drain at markendeyanagara main road and cross roads in ward no 05 byatarayanapura sub division 5) Improvement of roads and drain at sriraj layout main road and cross road in ward no 05 byatarayanapura sub division 6) Improvement of roads and drain at kogilu surrounding in ward no 05 byatarayanapura sub division 7)Improvement of roads and drain at agrahara village cross roads in ward no 05 byatarayanapura sub division 8) Improvement of roads and drain at agrahara layout kallappa reddy main road in ward no 05 byatarayanapura sub division

SL NO	DESCRIPTION	SANCTIONED AMOUNT (IN LAKHS)
1	Improvement of drain at thirumenahalli village main road in ward no 05 byatarayanapura sub division	45.00
2	Improvement of road and drain at thirumenahalli junction to agrahara layout govt hospital in ward no05 byatarayanapura sub division	30.00
3	Improvement of roads and drain at chokkanahalli village main road cross road in ward no 05 byatarayanapura sub division	50.00
4	Improvement of roads and drain at markendeyanagara main road and cross roads in ward no 05 byatarayanapura sub division	30.00
5	Improvement of roads and drain at sriraj layout main road and cross road in ward no 05 byatarayanapura sub division	40.00
6	Improvement of roads and drain at kogilu surrounding in ward no 05 byatarayanapura sub division	30.00
7	Improvement of roads and drain at agrahara village cross roads in ward no 05 byatarayanapura sub division	10.00
8	Improvement of roads and drain at agrahara layout kallappa reddy main road in ward no 05 byatarayanapura sub division	50.00
	TOTAL AMOUNT	285.00
NOTE The sanctioned Amount includes estimate cost, DPR,PMC,&TP charges		

Certificate.

1 The rates adopted based on the PWD SR, Bangalore circle for year 2016-17.
2 The provisions made in the estimate are necessary and essential.
3 The workspot was inspected and work is found to be necessary.
4 The area comes within the Bruhat Bangalore Mahanagara Palike limits.

Assistant Engineer

Assistant Executive Engineer
Project- Yelahanka Division

Executive Engineer
Project-Yelahanka Division
26/11/17

Administrative Approval
Accorded For Rs. 285.00 lakhs
Head of A/C.. P-3112
CER NO :188/17-18. Dt:15/3/18
E.E. (Project) 15/3/18

Technical Sanction
Accorded Rs. 285.00 lakhs
Head of A/C P-3112...
CER NO 389/17-18 Dt:28/11/17
CE (YNK)
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BRUHAT BENGALURU MAHANAGARA PALIKE

Name of work :Improvements to drain at Thirumenahalli village main road in ward no 05 Byatrayanapura sub division

Sl No	Description of work	No	Dimensions L	B	D	Quantity	Estimate Cost:Rs. Rate	Unit	4500000 Amount
1	2	3	4	5	6	7	8	9	10
1	KSRRB 300-1 Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specificatioMORTH Chapte(**P-142, It,-19.2)**								
	Basic Rate	113.00							
	Area Weightage 6%	6.78							
	Total	**119.78**							
	LHS & RHS	2	370.00	0.80	0.90	532.80			
					Total	**532.80**	**186.92**	**Cum**	**99591**
2	KSRB 4-1 1 Providing and laying in position plain cement concrete of nominal mix 1:3:6 using 40mm and down size graded granite metal machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 Specification No. KBS 4.1, 4.2 **(P-12, It.4.2)**								
	Basic Rate	5046.00							
	Area Weightage 6%	302.76							
	Total	**5348.76**							
	Drain bed	2	370.00	0.80	0.15	88.80			
					Total	**88.80**	**5348.76**	**Cum**	**474970**
3	KSRB 4.2.2:Providing andlaying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs, with 20mm and down size graded granite metal coarse aggregates @0.878 cum and fine aggregates @ 0.459 cum, with superplastisiser @ 3lts confirming to IS 9103-1999 Reaffirmed -2008, machine mixed, concrete laid in layres not exceeding 15 cms, thick vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase,lintles, retaining walls, return walls, walls (any thickness) includng attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills fillets etc, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No.KBS 4.1, 4.6 **(P-13, It.4.11)**								
	Basic Rate	6011.00							
	Area Weightage 6%	360.66							
	Total	**6371.66**							
	Drain bed	2.00	370.00	0.80	0.15	88.80			
	Drain wall	4.00	370.00	0.15	0.45	99.90			
						188.70	**6371.66**	**Cum**	**1202332**
4	KSRB 4.9-2:Providing **T.M.T steel reinforcement for R.C.C** work including straightening, cutting, bending, hooking, placing in position, lapping and or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification NO.KBS 4.6.3 **(P-17, It.4.46.2)fe 500**								
	Basic Rate	60607.00							
	Area Weightage 6%	3636.42							
	Total	**64243.42**							
	Qty @ 55Kg/Cum		1.00	188.70	0.55	103.79			
					Total	**10.38**	**64243.42**	**ton**	**666750**
5	KSRB 4-6.4:Providing and removing centering, shuttering, strutting, propping etc, and removal of form work for vertical surface such as walls at any thickness, including attached plasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 **(P-17 It.4.31)**								
	Basic Rate	293.00							
	Area Weightage 6%	17.58							
	Total	**310.58**							
	Drain walls	8	370.00		0.60	1776.00			
					Total	**1776.00**	**310.58**	**Sqm**	**551590**

6	*Providing and fixing 10 cm thick pre cast RCC covering slab using reinforced cement concrete M 20 mix with stone aggregate 20mm and down size including centering shuttering reinforcement and bar bending machine mixed concrete laid in layers not exceeding 15cm thick well compacted cost of all materials labour curing complete as per specifications (Approved Data Rate)*								
	Total	***2100.00***							
	Consider 60% only	*2*	*222.00*	*0.75*		*333.00*			
					Total	***333.00***	***2100.00***	***Sqm***	***699300***
7	*Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete.* ***(Page No.25, Item.No.5.30)***								
	Basic Rate	*313.00*							
	Area Weightage 6%	*18.78*							
	Total	***331.78***							
		2	*222.00*	*0.45*		*987*			
					Total	***987***	***331.78***	***Nos***	***327356***
8	*Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications.* ***(Page No.122, Item.No.15.80)***								
	Basic Rate	*26.00*							
	Area Weightage 6%	*1.56*							
	Total	***27.56***							
		2	*222.00*	*0.45*		*199.80*			
					Total	***199.80***	***27.56***	***Sqm***	***5506***
9	*KSRB 15-19.2 Providing and applying spray painting in two coats (excluding priming coat) over concrete / masonry i asbestos cement sheet / plastered surfaces with flat wall paint of approved brand to give even shade after cleaning the surface of all dirt, dust and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications* ***(P-122, It,-15.81)***								
	Basic Rate	*66.00*							
	Area Weightage 6%	*3.96*							
	Total	***69.96***							
		2	*222.00*	*0.45*		*199.80*			
					Total	***199.80***	***69.96***	***Sqm***	***13978***
10	*Miscellaneous & Rounding off*								***4041374***
								L/S	***458626***
	Total Rs: (Forty Five Lakhs Only)								***4500000***

CERTIFICATE

1. *The work spot has been inspected and found to be necessary*
2. *The provisions made in the estimate are necessary and minimum*
3. *The estimate is based on CSR of 2016-2017*

Assistant Engineer
Project Division

Assistant Executive Engineer
Project Division

Executive Engineer
Project Division,
Yelahanka Zone.

26/11

BRUHAT BANGALORE MAHANAGARA PALIKE

Project:2. Improvement of road and drain at thirumenahalli junction to agrahara layout govt hospital in ward no05 byatarayanapura sub division

Est Cost: =30.0Lakh

Sl. No.	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
1	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neately dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 (P.No.142, I.No.19.1 of PW, P&IWTD SR 2016-17)								
	Desilt	Cum							
	Infants Jesus Chruch Road		2	200.00	0.50	0.45	90.00		
							90.00	186.92	**16822.80**
2	KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301 (P.No.143, I.No.19.14 of PW,P&IWTD S.R 2016-17)								
	Road Portion	Cum							
	Infants Jesus Chruch Road		1	150.00	7.00	0.23	241.50		
	Govt hospital to lake entry		1	200.00	7.00	0.23	322.00		
							563.50	155.16	**87432.66**
3	KSRRB M 400-17, Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechaniqal mix plant carriage ' of mixed Material by tipper to site, laying in uniform layers with paver in sub- base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density.complete as per specifications. MORTH Specification No. 406 (P.No.158, I.No.20.18 of PW,P&IWTD SR 2016-17)								
	Road Portion	Cum							
	Infants Jesus Chruch Road		1	150.00	7.00	0.23	241.50		
	Govt hospital to lake entry		1	200.00	7.00	0.23	322.00		
							563.50	1768.08	**996313.08**
4	KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kg\sqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 (P.No.161, I.No.21.6 of PW,P&IWTD SR 2016-17)								
	Road Portion	Sqm							
	Infants Jesus Chruch Road		1	150.00	7.00	--	1050.00		
	Govt hospital to lake entry		1	200.00	7.00	--	1400.00		
							2450.00	27.56	**67522.00**
5	KSRRB M500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 (P.No.161 I.No.21.7 of PW,P&IWTD SR of 2016-17)								
	Road Portion	Sqm							
	For laying DBM								
	Infants Jesus Chruch Road		1	150.00	7.00	--	1050.00		
	Govt hospital to lake entry		1	200.00	7.00	--	1400.00		
	For Laying BC								
	Infants Jesus Chruch Road		1	150.00	7.00	--	1050.00		
	Govt hospital to lake entry		1	200.00	7.00	--	1400.00		
							4900.00	11.66	**57134.00**

6	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications.. MORTH Specification No. 507 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No.165 of I.No.21.17.6 in PW,P&IWTD S.R 2016-17)								
	Infants Jesus Chruch Road								
	Govt hospital to lake entry		1	150.00	7.00	0.05	52.50		
			1	200.00	7.00	0.05	70.00		
							122.50	6284.74	**769880.65**
7	KSRRB M500-19. Providing and laying bituminous concrete 30-40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 5.4% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 (P.No.165 of I.No.21.22.6 in PW,P&IWTD S.R 2016-17)								
	Road Portion	Cum							
	Infants Jesus Chruch Road		1	150.00	7.00	0.04	42.00		
	Govt hospital to lake entry		1	200.00	7.00	0.04	56.00		
							98.00	7083.98	**694230.04**
8	KSRRB M800-13. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803.(P.No.185, I.No.24.15 of PW,P&IWTD SR 2016-17)								
	Edge line	Sqm	2	350.00	0.10	--	70.00		
	Center line		1	350.00	0.10	--	35.00		
							105.00	542.72	**56985.60**
								Total Construction Cost	**2746320.830**
								Cost towards Preparation of DPR LS	**27464.00**
								Cost towards PMC / Third Party inspection LS	**27464.00**
								Sub Total	**2801248.83**
								Miscellaneous and rounding off	**198751.17**
								Total	**3000000.00**

Certificate.

1 The rates adopted based on the PWD SR, Bangalore circle for year 2016-17.
2 The provisions made in the estimate are necessary and essential.
3 The workspot was inspected and work is found to be necessary.
4 The area comes within the Bruhat Bangalore Mahanagara Palike limits.

Assistant Engineer

Assistant Executive Engineer

Executive Engineer 26/11

BRUHAT BANGALORE MAHANAGARA PALIKE

Project: Improvements to Roads and Drains at Chokkanahalli Village main Road and Cross roads in Ward No 05 Byatarayanapura Sub division

Est Cost: =50.0Lakh

Sl. No.	Description of work	Unit	No.	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in Rs.
				m	m	m			
1	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neately dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 (P.No.142, I.No.19.1 of PW, P&IWTD SR 2016-17)								
	Desilt	Cum							
	Chokkanahalli Road								
	Shakthi temple to RO plant		2	390.00	0.50	0.45	175.50		
							175.50	186.92	**32804.46**
2	KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301 (P.No.143, I.No.19.14 of PW,P&IWTD S.R 2016-17)								
	Road Portion	Cum							
	Chokkanahalli Road								
	Shakthi temple to RO plant		1	80	3.00	0.23	55.20		
	Cross roads near Chokkanahallli		1	180	5.00	0.23	207.00		
	Bad Reaches								
			3	5.00	2.00	0.23	6.90		
			2	3.00	3.00	0.23	4.14		
			1	2.00	5.00	0.23	2.30		
			7	2.00	5.00	0.23	16.10		
							291.64	155.16	**45250.86**
3	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No.4.2 of PW,P&IWTD S.R 2016-17)								
	for road portion	Cum							
	Shakthi temple to RO plant		1	80	3.00	0.15	36.00		
							36.00	5348.76	**192555.36**